CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP Bangalore.

30th March 2015

Dear Sir,

Sub: Improvements to roads and drains at Kurlappa layout cross roads in ward no. 01, of Yelahanka sub division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to roads and drains at Kurlappa layout cross roads in ward no. 01, of Yelahanka sub division.
Name of Agency	Sri. Y. S. Channakeshava
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS. 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (RCC Precast covering slab)	02/03/2015	30/03/2015	28	8.20	480	**21.33**	**21.11**
2					8.18	470	**20.89**	
3					8.19	475	**21.11**	

Note:
1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

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CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to roads and drains at Kurlappa layout cross roads in ward no. 01, of Yelahanka sub division.
Name of Agency	Sri. Y. S. Channakeshava
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS. 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work	24/02/2015	24/03/2015	28	8.20	475	**21.11**	**21.19**
2					8.21	485	**21.56**	
3					8.19	470	**20.89**	

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Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

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T-2654

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP Bangalore.

13th March 2015

Dear Sir,

Sub: Testing Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Improvements to roads and drains at Kurlappa layout cross roads in ward no. 01, of Yelahanka sub division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

TEST ON FINE AGGREGATES Ref:IS 383/2386

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to roads and drains at Kurlappa layout cross roads in ward no. 01, of Yelahanka sub division.
Name of the Agency	Sri. Y. S. Channakeshava
Date of Testing	09/03/2015
Specific Gravity	2.55

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	100	100	100	100	100	II
	4.75	98.6	90-100	90-100	90-100	95-100	
	2.36	84.2	60-95	75-100	85-100	95-100	
	1.18	73.6	30-70	55-90	75-100	90-100	
	0.6	45.3	15-34	35-59	60-79	80-100	
	0.3	24.7	5-20	8-30	12-40	15-50	
	0.15	8.1	0-10	0-10	0-10	0-15	

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Lab Incharge
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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to roads and drains at Kurlappa layout cross roads in ward no. 01, of Yelahanka sub division.
Name of the Agency	Sri. Y. S. Channakeshava
Date of Testing	09/03/2015

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	50	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	481	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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4. The results are based on the test conducted on samples supplied by the client.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

AE,
09/3/15
AEE

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TEST REPORT

TESTS ON SOLID BLOCKS

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to roads and drains at Kurlappa layout cross roads in ward no. 01, of Yelahanka sub division.
Sample received on	Sri. Y. S. Channakeshava
Date of Testing	13/03/2015
Technical Referance	IS: 2185(Part-I) 2005 (Reaffirmed 2010)
No. of samples tested	8
Grade	C (4.0)

1. COMPRESSIVE STRENGTH

Sl. No.	Nominal Dimension (cms)	Compressive strength (N/mm²)	Minimum Compressive Strength as per IS: 2185(Part-I) 2005	
			Individual	Avg. of 8 samples
1	40x20x20	4.5	Minimum Compressive Strength of Individual Units	Minimum Average Compressive Strength of Units
2		4.3		
3		4.2	For Grade C (5.0)- 4.0 N/mm² For Grade C (4.0)- 3.2 N/mm²	For Grade C (5.0)- 5.0 N/mm² For Grade C (4.0)- 4.0 N/mm²
4		4.4		
5		4.1		
6		4.3		
7		4.2		
8		4.1		
Average Compressive strength (N/mm²)		4.3		

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2. WATER ABSORPTION

Sl. No.	Nominal Dimension (cms)	Water Absorption (% by weight)	Average (% by weight)	Requirements as per IS : 2185(Part-I) 2005
1	40x20x20	6.72	**6.81**	When three samples are tested the average water absorption shall not be more than 10% by mass
2		6.80		
3		6.92		

3. BLOCK DENSITY

Sl. No.	Nominal Dimension (cms)	Block Density (Kg/cum)	Average (Kg/cum)	Requirements as per IS: 2185(Part-I) 2005
1	40x20x20	1863.2	**1863.8**	The Solid Concrete blocks used as load bearing units shall have average block density not less than 1800Kg/m³
2		1864.5		
3		1863.8		

Remarks	Satisfies the Requirements.

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Lab Incharge
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